

Table 1. Summary of Direct and Indirect Impacts

Alternative

Environmental					
Factors	Application/Preferred Alternative	Alternative A	Alternative B	Alternative C	Alternative D
Alternative Description		No wetland mining, no action (projected statistical mine plan basis)	Mining of all reserves including wetlands (projected statistical mine plan basis)	Mining of all reserves including wetlands excluding DER jurisdictional and deferral wetlands (projected statistical mine plan basis)	Mining of all known reserves (as of November 2000) including wetlands (prospect and landowner agreement mine plan basis)
Project Setting/Existing Conditions	100,580 acre project area. There are 1987 permitting process and approxim 2001 US Supreme Court decision red	nately 19,000 acres were	preserved from mining in the 1987	7 original federal and state permitting	g efforts. SWANCC January 9,
Alternative Details/Description	acres DER jurisdiction. 1,671 acres of Corps jurisdiction. Some overlap occurs. The application footprint is approximately 18,166 acres. BOMR and Hamilton County permits for all upland and wetland	No wetlands would be impacted. No new federal permits required. No state jurisdictional wetland permits required. The operational footprint is approximately 2,841 acres. BOMR and Hamilton County permits for all upland areas.	All wetlands with reserves and sufficient mineral interests would be mined or disturbed. Permits required from both federal and state agencies. 1,448 acres DER jurisdiction. 1,858 acres of Corps jurisdiction. The operational footprint is approximately 16,299 acres. BOMR and Hamilton County permits for all upland and wetland areas.	•	Activities under this alternative closely track the current application footprint. 1,448 acres DER jurisdiction. 1,858 acres of Corps jurisdiction. The operational footprint is 20,514 acres. BOMR and Hamilton County permits for all upland and wetland areas.
Wetlands Impacted	A total of 5,670 wetland acres will be mined. Of these acres there are 805 acres of DER jurisdiction and 1,671 acres of ACOE jurisdiction.	0 wetland acres mined.	A total of 5,159 wetland acres will be mined. Of these acres there are 1,448 acres of DER jurisdiction and 1,858 acres of ACOE jurisdiction.	3,648 wetland acres mined.	A total of 6,712 wetland acres will be mined. Of these acres there are 1,448 acres of DER jurisdiction and 1,858 acres of ACOE jurisdiction.
Post-reclamation wetland acreage and change	Slightly greater than acre-for-acre replacement of wetlands in the application area after reclamation is completed.	0 wetland acres reclaimed.	Slightly greater than acre-for-acre replacement of wetlands after reclamation is completed. Overall there will be an increase of approximately 1,178 acres (12%) post-reclamation.	replacement of wetlands after	Slightly greater than acre-for- acre replacement of wetlands after reclamation is completed. Overall there will be an increase of approximately 2,014 acres (20%) post-reclamation.

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Environmental	,	1	1	· · · · · · · · · · · · · · · · · · ·	l					
Factors	Application/Preferred Alternative				Alternative D					
Wildlife	Changes in vegetation and faunal makeup as succession takes place after restoration is complete. Natural biological system values initially increase over time. Construction of lakes in the area will increase the habitat available for waterfowl, wading birds, fish and aquatic mammals.		place after restoration is complete. Natural biological system values initially increase over time. Construction of lakes in the area will increase the habitat available for waterfowl,	makeup as succession takes place after restoration is complete. Natural biological system values initially increase over time. Construction of lakes in the area will increase the habitat available for waterfowl, wading birds, fish and aquatic mammals.	Changes in vegetation and faunal makeup as succession takes place after restoration is complete. Natural biological system values initially increase over time. Construction of lakes in the area will increase the habitat available for waterfowl, wading birds, fish and aquatic mammals.					
Groundwater Recharge	No changes are projected between pre-mining and post-reclamation groundwater recharge.		reclamation groundwater	pre-mining and post-reclamation	No changes are projected between pre-mining and post-reclamation groundwater recharge.					
Water Table	Localized lowering of water table may cause the short term drying of some wetlands immediately adjacent to the active mine pits. The water table and drawdown will quickly return to normal as soon as the active mining moves away. See Section 3.1.3.3. (STBD, 2000). The potential amount of unmined areas affected is commensurate with the total amount of mining.									
Uplands Impacted	112 495 libiand acres mined	2,841 upland acres mined.	11,140 upland acres mined.	10,357 upland acres mined.	13,802 upland acres mined.					
Post-reclamation upland acreage and change	Overall there will be a decrease of approximately 3,218 acres (12%) post-reclamation. The decrease in upland acreage results in increases in lakes and wetlands.	decrease of approximately 735 acres (3%) post- reclamation. The decrease in upland acreage results in	in upland acres of approximately 3,053 acres (12%) post-reclamation. There will be an increase of approximately 265 acres of Hardwood Forest (FLUCCS 434). The decrease in upland acreage results in	upland acres of approximately 2,692 acres (10%) post-reclamation. There will be an increase of approximately 260 acres of Hardwood Forest (FLUCCS 434). The decrease in upland acreage results in	Overall there will be a decrease in upland acres of approximately 4,403 acres (17%) post-reclamation. There will be an increase of approximately 2,761 acres of Hardwood Forest (FLUCCS 434). The decrease in upland acreage results in increases in lakes and wetlands.					
Wildlife	Changes in vegetation and faunal mak of uplands to lakes. See Section 3.1.3.		s place after mining operations are	concluded. Loss of upland habitat,	flora and fauna due to conversion					
Lakes Reclaimed	approximately 2,422 acres post-	annroximately 736	of approximately 1,875 acres	approximately 1,834 acres post-	Overall there will be an increase of approximately 2,079 acres post-reclamation.					

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Environmental	A I a still a s	Alkanna athara	A.M	A14	Alfanostina B						
Factors		Alternative A	Alternative B	Alternative C	Alternative D						
	28 years (reduce by 15 to 18 months due to the decrease in the mining	2 voore	20 years	16 years	22 years						
	footprint).	3 years	20 years	16 years	22 years						
ior rates or mining)	The USFWS has concluded, via a lette	ar from Mr. Dete Benjam	I in (dated November 19, 2002) that	t this proposed project will not adver-	selv affect any of the threatened						
Protected Species	and endangered species addressed in the DSEIS. Specifically Mr. Benjamin stated that the proposed project will not adversely affect the following species: flatwoods salamander (Ambystoma cingulatum), Eastern indigo snake (Drymarchon corais couperi), red-cockaded woodpecker (Picoides borealis), bald eagle (Haliaeetus leucocephalus), wood stork (Mycteria americana), gray bat (Myotis griscens), Chapman's rhododendron (Rhododendron chapmanii) and Gulf sturgeon (Acipenser oxyrhynchus desotoi). In addition, Mr. Benjamin when on to state that PCS: "has sufficiently avoided, minimized, and mitigated for the proposed jurisdictional wetland impacts, and that the sequence of mining and wetland reclamation, Suwannee River tributary diversions and restorations, the proposed conservation easements, and future purchase of environmentally sensitive lands, including wetlands, will adequately offset the proposed wetland impacts."										
Fish and Wildlife Resources	There is a temporary loss of habitat in the areas being mined. Increase in density of wildlife in undisturbed areas with potential increases in predation, disease, etc. Increase in habitat diversity. The project area provides a wide diversity of habitats that serve as strong attractors for migratory wildlife. The combination of natural, active mine areas and various stages of reclaimed area provide large amounts of forage areas and habitats. This has been clearly demonstrated over the past decade by the consistently high hunter success in the PCS Wildlife Management Area operated by the FWCC. This area is actually in an active mine area within the PCS project areas. The FWCC also operates two wildlife management areas (Eagle Lake Fish Management Area and Lang Lake Fish Management Area) within the project area on previously mined areas. A successful commercial hunting and fishing operation also operates on a mosaic of ~14,500 acres of natural, previously mined and reclaimed areas. A private entity recently purchased nearly 3,000 acres of reclaimed wetlands, lakes and uplands for use as a retreat and recreational area.										
Essential Fish Habitat	Not applicable.	Not applicable.	Not applicable.	Not applicable.	Not applicable.						
Water Quality	PCS and its predecessors have opera period. All mine water discharges occ compliance with applicable state and f will continue and the quality will not chalternatives, except for the potential during the potential durin	ur through permitted out ederal water quality star ange due to the alternat	falls (NPDES/IW). The discharges adards. Regardless of the action to lives selected, even if it is the "no a	s meet all applicable permit limits whaken by the ACOE on the proposed action" alternative. Therefore, there	ich are designed to insure activities, the mining discharges						
Hydrology	Drainage basin boundaries changed d post-reclamation flooding reduced due surface water hydrology is restored to	to increased lake storage	ge. Post-reclamation drainage bas								
	Hamilton County is bounded on three Suwannee River runs eighty miles on River are primitive natural unimproved canoe camping. The recreational and Criteria (ACOE, 1978) (TBD, Section 3 and shoals. There will be positive imp wildlife habitat and hunting opportunition the differences in acres of lakes.	the east and south, and areas open to the public natural resource activities. 10). General recreation acts on recreation due to	the Withlacoochee River is the two c for recreation activities such as fi es of the Suwannee River were an n of the Suwannee River was eval o the increase in lakes. The increa	enty-five mile western boundary. The ishing, hunting, hiking, biking, horsely alyzed using the ACOE Recreation a uated to be moderate, primarily due ase in mixed upland forest (FLUCCS)	e public lands of the Suwannee back riding, nature study and and Natural Resource Assessment to access, unstable water levels, 434) around the lakes will provide						
Aesthetics	Large-scale forest management activit ecological systems in the project area diverse habitat through the creation of as wading birds, and waterfowl, which	Once mining and recla a mosaic landscape wh	mation are complete, the aesthetic ich will include lakes, wetlands, ha	cs of the project area will improve. R	leclamation will create more						

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Environmental										
				Alternative C	Alternative D					
				Not applicable.	Not applicable.					
		Not applicable.	Not applicable.	Not applicable.	Not applicable.					
Statewide Cumulative Economic Impacts	the decrease in the application footprint of approximately 1,000 acres.	expenditures and 17,150 person years of employment	and 114,333 person years of employment	91,466 person years of employment	\$11,931,027,000 expenditures and 125,766 person years of employment					
Historic Properties	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.					
Energy Requirements and Conservation	This aspect was not quantified. Howeverstrictive alternatives prevent the equi									
Hard Ground	Not applicable.				Not applicable.					
Aquatic Communities		There will be	no loss of streambed habitat, all lo	osses will be replaced.						
	No air quality permits are required for recontributed by clearing, mining, transposuwannee River and PCS manufacture (TBD Section 3.5). quantities of carbonegligible. There have been no significative changed.	oort of material, and recla ring facilities show that to on monoxide, nitrogen ox	amation activities. The air quality motal suspended particulate matter leades, volatile organic compounds,	monitoring data collected in the vicini levels are below standards establishe, and sulfur dioxide, resulting from the	ity of both the Swift Creek and the ed by EPA and adopted by FDER e exhaust of mobile equipment, are					
Noise	In the absence of stationary operational (DEIS, 1985). Noise levels for major in distance. These impacts are of short one mile from principal noise sources in methods since the TBD. Therefore the	nobile equipment, includi duration and localized. E is 40-55 dB, just slightly (ling the large draglines, which may Based on noise source data and th greater than baseline levels (TBD,	y also be considered as point sources he noise attenuation rate, the range of the source of the source of the source of the source of the the source of the	es, are 76-85 dBA at 100 ft of existing noise levels more than					
Radiation	studied for several years. The increas	The mining process does not produce radioactive waste. However, radon emission may increase slightly on mined and reclaimed lands. This has been extensively studied for several years. The increase is not related to community type since, the increase occurs whether wetlands or uplands are mined. There are no risks to humans or wildlife as long as the state guidelines are followed.								
	5,555 Sick 55 151 Mile 51 pm 51 mile 1		7		2,893 acres for the alternative footprint.					

^{*} The estimated years of mine life were based upon continuous operations at a consistent production rate until all the reserves are mined. Experience has demonstrated that production levels and mining rates vary widely over time. The estimated years of mine life are valid for comparison of alternatives, but should not be viewed as a limitation on the duration of permitted operations. All alternatives evaluated are incremental to the currently permitted operations.

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Table 2. Percent Relative Dominance Summary of Wetland Data Collected at PCS. (revised 01/07/03)

	Wetland #						Ave	Average				
	2696 ^A	1175 ^A	2275 ^A	2734 ^B	1370 ^B	1227 ^B	1378 ^B	1690 ^B	2139 ^B	2550 ^B	620	630/615
<u>Taxa</u>												
CANOPY												
Nyssa biflora	16.52	4.17	28.57	50.00	43.75	38.71	44.31	45.10	82.52	37.90	16	61
Taxodium ascendens	69.57	95.83	71.43	40.00	37.50	54.03	44.31	18.95	4.85	14.23	79	89
Magnolia virginiana				7.50				9.15	5.83	21.89		11
Pinus elliottii	13.91			2.50	18.75	7.26	2.40	10.46	0.97	0.18	14	16
Acer rubrum									4.85	21.17		13
Gordonia lasianthus							8.38	9.15		3.38		7
Persea borbonia							0.60	7.19	0.97	0.71		2
Lyonia lucida										0.18		0
llex opaca										0.18		0
llex sp.										0.18		0
SUBCANOPY												
Lyonia lucida	30.95	29.17	53.85	13.33		19.35	35.93	43.84	36.27	1.96	38	53
Clethra alnifolia	5.50	12.50	3.85	16.67		4.84	6.59	4.11	15.69	11.61	7	15
Nyssa biflora	18.25	8.33	38.46	41.67	68.75	52.42	49.10	33.56	33.33	30.18	22	60
Taxodium ascendens	34.12	4.17	3.85	8.33	12.50	15.32	6.59	5.48	1.96	4.11	14	18
Pinus elliottii	4.76				6.25					0.18	5	7
Persea borbonia	3.17									1.25	3	4
Myrica cerifera	3.17	33.33				4.84	0.60		0.98	0.71	18	15
Magnolia virginiana					6.25	1.61		6.85	9.8	7.41		6
Acer rubrum					6.25			1.37		40.54		16
Gordonia lasianthus							1.20	4.11		1.79		2
llex sp.										0.36		0
Cephalanthus occidentalis		8.33				1.61		0.68	1.96		8	8
Ilex virginiana		4.17									4	
Saururus cernuus										0.18		0

^A Based on reference wetland data and descriptions in the Florida Land Use, Cover and Forms Classification System (FLUCCS), code 620 Wetland Coniferous Forest.

^B Based on reference wetland data and descriptions in the Florida Land Use, Cover and Forms Classification System (FLUCCS), code 630/615 Wetland Forested Mixed/Stream and Lake Swamps (Bottomland).

Table 3. Reference Wetland Composition. (revised 01/07/03)

Tree Groups	Percentage	FLUCCS Code	Acres
Nyssa	30	630/615	
Taxodium spp.	35	630/615	
bays	15	630/615	958
pines	5	630/615	
misc. hardwoods	15	630/615	
Taxodium spp.	60	620	
pines	20	620	230
misc. hardwoods	20	620	

Table 4. Summary of Disturbance within Pre-mining Drainage Basins - Hamilton County Mine.

PERCENT OF BASIN ISOLATED FROM BASE FLOW

İ	Bell	Bull	Camp	Cat	Cone	East	Four Mile	Godwin	Hunter	Jerry	Long	Ratliff	Roaring	Rocky Ck.	Sal Marie	Sugar	Suwannee	Swift	Тор	White
Year	Creek	Bay	Branch	Creek	Bridge	Hamilton	Branch	Bridge	Creek	Branch	Branch	Creek	Creek	Shaky pd	Branch	Creek	River	Creek	Bay	Springs
ı cui	Orcon	Day	(1)	Orcon	Driage	Hamilton	Dianon	Dilago	(1)	Dianon	Branon	Orock	Orock	Orlany pa	Dianon	Orccit	111101	(1)	Duy	Opriligo
Pre Mining Acres	4051.79	1474.82	5548.85	309.73	1894.23	1084.69	2659.96	398.64	16613.94	2222.77	3922.09	1004.46	11810.82	30014.93	1809.92	2993.14	3645.46	24677.75	171.99	305.46
2001	11%	5%		30%	0%	0%	19%	0%		0%	4%	0%	43%	10%	34%	21%	0%		23%	0%
2002	21%	5%		58%	0%	0%	19%	0%		0%	4%	0%	43%	11%	62%	32%	0%		23%	0%
2003	21%	5%		58%	0%	0%	19%	0%		0%	4%	0%	47%	11%	62%	32%	0%		23%	0%
2004	21%	5%		58%	0%	0%	19%	0%		0%	4%	0%	47%	11%	62%	32%	0%		23%	0%
2005	21%	8%		58%	0%	0%	30%	0%		0%	4%	0%	47%	11%	62%	32%	0%		23%	0%
2006	21%	8%		58%	0%	0%	30%	0%		0%	4%	0%	47%	11%	62%	32%	0%		23%	0%
2007	21%	8%		58%	0%	0%	30%	0%		0%	19%	0%	50%	11%	62%	0%	0%		23%	0%
2008	21%	8%		0%	0%	0%	30%	0%		0%	19%	0%	50%	0%	62%	0%	0%		23%	0%
2009	0%	8%		0%	0%	0%	36%	0%		15%	19%	0%	50%	0%	62%	0%	1%		23%	0% 0%
2010 2011	0% 15%	8% 0%		0% 0%	0% 48%	0% 0%	36% 6%	0% 0%		15% 34%	19% 34%	0% 0%	50% 50%	0% 0%	62% 62%	0% 0%	1% 1%		23% 0%	0%
2011	15%	0%		0%	48% 48%	0% 0%	6%	0%		34% 34%	34%	0%	50% 50%	0% 5%	0%	0%	1%		0% 0%	0%
2012	15%	0%		0%	48%	0%	6%	0%		34%	34%	0%	50%	5%	0%	11%	6%		0%	0%
2014	15%	0%		0%	48%	0%	6%	0%		34%	34%	0%	46%	5%	0%	11%	6%		0%	0%
2015	18%	0%		0%	48%	65%	6%	0%		34%	34%	0%	48%	5%	0%	11%	6%		0%	0%
2016	18%	0%		0%	48%	65%	6%	0%		34%	34%	0%	48%	5%	0%	11%	6%		0%	0%
2017	18%	0%		0%	48%	65%	0%	0%		19%	34%	0%	54%	5%	0%	37%	6%		0%	0%
2018	32%	0%		0%	48%	65%	0%	0%		19%	38%	21%	54%	9%	0%	37%	6%		0%	0%
2019	17%	0%		0%	48%	65%	0%	0%		19%	23%	21%	31%	9%	0%	37%	6%		0%	0%
2020	17%	0%		0%	48%	65%	0%	0%		19%	4%	21%	31%	9%	0%	37%	6%		0%	0%
2021	17%	0%		0%	0%	65%	0%	0%		19%	4%	21%	31%	9%	0%	37%	5%		0%	0%
2022	17%	0%		0%	0%	65%	0%	0%		0%	17%	21%	31%	9%	0%	37%	5%		0%	0%
2023	17%	0%		0%	0%	65%	0%	0%		0%	17%	21%	31%	6%	0%	37%	5%		0%	0%
2024	10%	0%		0%	0%	65%	0%	57%		0%	17%	21%	29%	6%	0%	26%	0%		0%	0%
2025	10%	0%		0%	0%	65%	0%	57%		0%	31%	21%	29%	10%	0%	0%	0%		0%	0%
2026 2027	10% 10%	0% 0%		0% 0%	0% 0%	0% 0%	0% 0%	57% 57%		0% 0%	31% 31%	0% 0%	29% 29%	10% 10%	0% 0%	0% 0%	0% 0%		0% 0%	0% 0%
2027	10%	0%		0%	0%	0% 0%	0% 0%	57% 57%		0%	18%	0%	29% 29%	9%	0%	0%	0%		0% 0%	0%
2028	7%	0%		0%	0%	0%	0%	57%		0%	18%	0%	29%	9%	0%	0%	0%		0%	0%
2030	7%	0%		0%	0%	0%	0%	57%		0%	18%	0%	29%	10%	0%	0%	0%		0%	0%
2031	7%	0%		0%	0%	0%	0%	0%		0%	1%	0%	42%	10%	0%	0%	0%		0%	0%
2032	7%	0%		0%	0%	0%	0%	0%		0%	1%	0%	42%	6%	0%	0%	0%		0%	0%
2033	7%	0%		0%	0%	0%	0%	0%		0%	1%	0%	42%	4%	0%	0%	0%		0%	0%
2034	7%	0%		0%	0%	0%	0%	0%		0%	1%	0%	42%	4%	0%	0%	0%		0%	0%
2035	7%	0%		0%	0%	0%	0%	0%		0%	1%	0%	42%	4%	0%	0%	0%		0%	0%
2036	7%	0%		0%	0%	0%	0%	0%		0%	1%	0%	42%	1%	0%	0%	0%		0%	0%
2037	7%	0%		0%	0%	0%	0%	0%		0%	1%	0%	37%	0%	0%	0%	0%		0%	0%
2038	0%	0%		0%	0%	0%	0%	0%		0%	0%	0%	29%	0%	0%	0%	0%		0%	0%
2039	0%	0%		0%	0%	0%	0%	0%		0%	0%	0%	20%	0%	0%	0%	0%		0%	0%
2040	0%	0%		0%	0%	0%	0%	0%		0%	0%	0%	20%	0%	0%	0%	0%		0%	0%
2041	0%	0%		0%	0%	0%	0%	0%		0%	0%	0%	0%	0%	0%	0%	0%		0%	0%
2042	0%	0%		0%	0%	0%	0%	0%		0%	0%	0%	0%	0%	0%	0%	0%		0%	0%

⁽¹⁾ THESE BASINS CONTAIN NPDES DISHCARGE POINT. AS A RESULT, ALL FLOW FOR THAT BASIN IS ROUTED TO THE DISCHARGE POINT AND THERE IS NO ISOLATION OF AREA.

Table 5. Comparison of Evaluation Area Affected Environment and Post-reclamation Landuse by Alternative.

		AFFECTED	ALT A	ALT B	ALT C	ALT D	Application
		ENVIRONMENT	ONSITE	ONSITE	ONSITE	OnSITE	Footprint/
		EVALUATION	EVALUATION	EVALUATION	EVALUATION	EVALUATION	Preferred
		AREA	AREA	AREA	AREA	AREA	Alternative
FLUCCS	Description						
110	Residential	271	242	170	180	171	219
200/400	Agriculture/Forestry	0	0	2,565	2,565	1,341	1,538
212	Unimproved Pastures	1,997	1,660	1,551	1,554	1,117	1,385
215	Field Crops	1,149			668	725	852
232	Poultry Feeding Operations	50			ı	0	3
254	Aquiculture	81	81	81	81	77	81
411	Pine Flatwoods	2,154	1,845		567	263	337
434	Hardwood - Conifer Mixed	1,463		2,092	2,101	4,484	3,307
441	Coniferous Plantations	18,710	18,294	15,231	15,485	13,322	14,657
520	Lakes	5		1,896	1,856	2,101	2,326
611	Bay Swamps	620			607	203	615
615	Stream & Lake Swamps (Bottomland)	367	367	364	389	239	344
617	Mixed Wetland Hardwoods	284	284	255	254	176	205
618	Willow & Elderberry	-	-	471	471	1,551	1,341
620	Wetland Coniferous Forests	5,415			3,549	3,025	3,371
630	Wetland Forested Mixed	3,216			5,548	6,808	4,895
640	Vegetated Non-Forested Wetlands	114	114	57	57	28	120
742	Borrow Areas	28		10	10	10	16
812	Railroads	11	11	11	11	11	11
814	Roads & Highways	102	101	85	85	75	125
TOTAL		36,038	36,038	36,038	36,038	35,727	35,747
wetlands 1		10.016	10.016	11,194	10,874	12,030	10,890
uplands ²		25,605	24,900	22,671	23,021	21,329	22,159
water 3		32	768	· ·	· ·	· ·	·
				1,907	1,866	2,112	2,342
urban ⁴	ı	384	354	266	276	257	355
wetlands 1		10,016	10,016	11,194	10,874	12,030	10,890
uplands 5		25,989	25,254	22,937	23,298	21,586	22,515
water 3		32	768	1,907	1,866	2,112	2,342

Note ¹ wetlands = sum of 611, 615, 617, 618, 620, 630, and 640. Note ² uplands = sum of 200/400, 212, 215, 232, 254, 411, 434, and 441. Note ³ water = sum of 510 and 520 + 742

Note 4 urban = sum of 110, 140, and 150 + 812 and 814.

Note ⁵ uplands = sum of uplands and urban.

Table 6. Comparison of Project Area Affected Environment and Post-reclamation Landuse by Alternative.

FLUCCS	Description	AFFECTED ENVIRONMENT PROJECT AREA	ALT A ONSITE PROJECT AREA	ALT B ONSITE PROJECT AREA	ALT C ONSITE PROJECT AREA	ALT D ONSITE PROJECT AREA	Application Footprint/ Preferred Alternative
110	Residential	271	242	170	180	180	219
140	Commercial and Services	1	1	1	1	1	1
150	Industrial	2,431	2,431	2,431	2,431	2,431	2,450
200/400	Agriculture/Forestry	4,690	4,690	8,134	8,134	8,134	9,888
212	Unimproved Pastures	5,129	4,785	4,620	4,642	4,642	3,879
215	Field Crops	1,150	950	638	668	668	861
232	Poultry Feeding Operations	67	67	17	17	17	20
254	Aquiculture	81	81	81	81	81	81
411	Pine Flatwoods	5,145	4,835	3,480	3,568	3,568	1,975
434	Hardwood - Conifer Mixed	6,620	7,188	6,885	6,880	6,880	7,946
441	Coniferous Plantations	39,916	39,507	36,512	36,731	36,731	32,670
510	Streams & Waterways	36	36	36	36	36	36
520	Lakes	5,463	6,198	6,977	6,932	6,932	7,134
611	Bay Swamps	1,579	1,579	1,585	1,585	1,585	1,612
615	Stream & Lake Swamps (Bottomland)	1,001	1,001	957	983	983	1,052
617	Mixed Wetland Hardwoods	1,154	1,154	1,124	1,124	1,124	1,075
618	Willow & Elderberry	4,915	4,915	5,426	5,426	5,426	6,647
620	Wetland Coniferous Forests	6,046	6,036	3,926	4,086	4,086	3,903
630	Wetland Forested Mixed	13,354	13,353	16,151	15,646	15,646	17,590
640	Vegetated Non-Forested Wetlands	287	287	216	216	216	283
742	Borrow Areas	28	28	11	11	11	16
812	Railroads	65	65	65	65	65	209
800	Transportation & Utilities	1,150	1,150	1,138	1,138	1,138	1,034
TOTAL		100,580	100,580	100,580	100,580	100,580	100,581
1		T	TT	T		T	
wetlands 1		28,336	28,325	29,385	29,066	29,066	32,162
uplands 2		62,798	62,104	60,367	60,720	60,720	57,321
water 3		5,527	6,263	7,024	6,979	6,979	7,186
urban ⁴		3,918	3,889	3,805	3,815	3,815	3,913
wetlands 1		28,336	28,325	29,385	29,066	29,066	32,162
uplands 5		66,717	65,993	64,172	64,535	64,535	61,233
water ³		5,527	6,263	7,024	6,979	6,979	7,186

Note ¹ wetlands = sum of 611, 615, 617, 618, 620, 630, and 640.

Note 2 uplands = sum of 200/400, 212, 215, 232, 254, 411, 434, and 441.

Note ³ water = sum of 510 and 520 + 742

Note 4 urban = sum of 110, 140, and 150 + 812 and 814.

Note ⁵ uplands = sum of uplands and urban.

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Table 7. Landuse Types Impacted by Mine/Mine Support by Alternative.

			A11	A16		Application Footprint/ Preferred
FLUCCS	Description	Alternative A	Alternative B	Alternative C	Alternative D	Alternative
110	Residential	29	101	90	100	57
150	Industrial	0	0	0	0	0
200/400	Agriculture/Forestry	0	0	0	0	0
212	Unimproved Pastures	337	381	378	865	632
215	Field Crops	201	513	483	425	300
232	Poultry Feeding Operations	0	50	50	50	50
254	Aguiculture	0	0	0	0	0
411	Pine Flatwoods	310	1,642	1,587	1,723	1809
434	Hardwood - Conifer Mixed	222	501	420	458	473
441	Coniferous Plantations	1,730	7,888	7,290	10,114	9106
520	Lakes	0	0	0	0	0
611	Bay Swamps	0	376	376	515	486
615	Stream & Lake Swamps (Bottomland)	0	230	6	237	253
617	Mixed Wetland Hardwoods	0	116	114	119	100
618	Willow & Elderberry	0	0	0	0	0
620	Wetland Coniferous Forests	0	2,731	2,320	3,553	3241
630	Wetland Forested Mixed	0	1,630	755	2,166	1490
640	Vegetated Non-Forested Wetlands	0	60	60	104	93
742	Borrow Areas	0	17	17	17	11
812	Railroads	0	0	0	0	0
814	Roads & Highways	11	64	58	66	64
TOTAL		2,841	16,299	14,005	20,514	18,166
		,				
wetlands 1		0	5,159	3,648	6,712	5674
uplands 2		2,800	10,975	10,208	13,636	12370
water ³		0	0	0	0	0
urban 4		40	165	148	166	122
wetlands 1		0	5,159	3,648	6,712	5674
uplands 5		2,841	11,140	10,357	13,802	12491
water 3		0	0	0	0	0

Note ¹ wetlands = sum of 611, 615, 617, 618, 620, 630, and 640.

Note 2 uplands = sum of 200/400, 212, 215, 232, 254, 411, 434, and 441. Note 3 water = sum of 510 and 520 + 742

Note 4 urban = sum of 110, 140, and 150 + 812 and 814.

Note ⁵ uplands = sum of uplands and urban.

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